

**PROCEDURE FOR CALIBRATION AND/OR VERIFICATION
OF THE APPARATUS USED IN
ASTM C 1252**

A. PURPOSE

The purpose of this procedure is to provide instruction for the calibration of the 100 ml measure and to verify the dimensions of other apparatus used.

B. APPARATUS REQUIRED

1. Boiled deionized water and grease.
2. Calibrated thermometer reading within the specified range.
3. Certified caliper.

C. PROCEDURE

Follow the procedure outlined in ASTM C 1252.

D. TOLERANCE

All tolerances are as recorded in ASTM C 1252, Sections 6.0 and 8.0.

EQUIPMENT VERIFICATION RECORD

Verified By: _____ Date: _____

Equipment: 100 ml Measure (Calibrated), Funnel, Funnel Stand, Location (Lab): _____
Metal Spatula

Identification No.: _____ Verification Frequency: 12 months

Previous Verification Date: _____ Next Due Date: _____

Verification Equipment Used: Calipers, readable to 0.001 in., SN: _____ Calibrated
 Thermometer, SN #: _____

Verification Procedure: (In-house) OMR-CVP-58 / ASTM C 1252

Capacity ml	Inside Diameter	Inside Height	Minimum Thickness of Metal		
			Bottom	Wall	Flange
100	39 mm	86 mm	6 mm	2 mm	3.1 – 3.9 mm

MEASURE

Condition of measure:	Good	Fair	Poor
Rim Smooth?	Yes	No	
Rim plane to 0.01 in.?	Yes	No	
Measure water tight?	Yes	No	
Inside diameter of measure:	_____ mm		
Inside height of measure:	_____ mm		
Bottom thickness of measure:	_____ mm		
	_____ mm		
	_____ mm		

FUNNEL

Condition of funnel:	Good	Fair	Poor
Cone slope 56-60 deg.?	Yes	No	
Opening (output) 12.1-13.3 mm?	Yes	No	
Funnel smooth metal 38 mm high?	Yes	No	
Minimum capacity 200 ml?	Yes	No	

FUNNEL STAND

Funnel Opening 113-117 mm above measure?	Yes	No
Means of centering measure below funnel?	Yes	No

MEASURE CALIBRATION

Weight of measure, glass and water	_____
Weight of measure and glass	_____
Weight of water	_____

METAL SPATULA

Blade length minimum 100 mm?	Yes	No
Blade width minimum 20 mm?	Yes	No
End cut at right angle to blade?	Yes	No
Side of blade straight?	Yes	No

Calculate the volume of the measure as follows:

- V = 1000 (M) divided by (D)
- V = Volume of measure, ml
- M = Net mass of water, grams
- D = Density of water, kilogram per cubic meter

Remarks: _____